

AMENDMENTS TO CLAIMS

1. (Currently Amended) A resin, C, consisting essentially of the reaction product of a polyamidoamine A with K, wherein A has at least one crosslinkable functional group; K is a crosslinking agent consisting essentially of a at least one polyepoxide selected from the class consisting of glycerol triglycidyl ether (triglycidyl glycerol), triphenylolmethane triglycidyl ether, trimethylolethane triglycidyl ether, trimethylolpropane triglycidyl ether, 1,2,4-butanetriol triglycidyl ether, 1,2,6-hexanetriol triglycidyl ether, 1,2,3-heptanetriol triglycidyl ether, pentaerythritol triglycidyl ether, 1,1,1-tris(4-hydroxyphenyl)-ethane triglycidyl ether, calix [4] arene triglycidyl ether, calix[6]arene triglycidyl ether, 4-t-butylcalix[4]arene triglycidyl ether, 4-t-butylcalix[6]arene triglycidyl ether, pyrogallol triglycidyl ether, 1,2,4-benzenetriol triglycidyl ether, phloroglucinol triglycidyl ether, and triglycidylisocyanurate.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Currently amended) The resin of claim 1 5, wherein the suitable polyamidoamine is selected from the ~~is a member of the~~ group consisting of adipic acid-diethylenetriamine, dimethylglutarate-diethylene triamine, caprolactam-itaconic acid-diethylene triamine, caprolactam itaconic acid- 6 aminohexanoic acid-diethylenetriamine, and methylbisamino-propylamine-oxalic acid-urea.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (currently amended) The resin according to claim 1, wherein the polyepoxide is triglycidylisocyanurate.

11. (Cancelled)

12. (Original) The resin according to claim 1, wherein A is in solution, the solution having a solids content from about 30% to about 70% by weight based on solids.

13. (Currently amended) The resin, C of claim 6 wherein K is triglycidylisocyanurate comprising the formula A-K of claim 1, wherein the resin is selected from one of:

A is adipic acid-diethylenetriamine polymer; and K is triglycidylisocyanurate.

A is caprolactam-itatonic acid-diethylenetriamine polymer; and K is triglycidylisocyanurate.

A is caprolactam-itatonic acid-6 aminohexanoic acid-diethylenetriamine polymer; and K is triglycidylisocyanurate.

A is dimethylglutarate-diethylenetriamine polymer and K is triglycidylisocyanurate.

A is polyethyleneimine polymer; and K is triglycidylisocyanurate

A is polymethyldiallylamine polymer; and K is triglycidylisocyanurate.

A is methylbisamino propylamine-oxalic acid-urea polymer; and K is triglycidylisocyanurate.

14. (Currently amended) A process for preparing the a resin of claim 1, C, which comprises reacting polyamidoamine A with crosslinking agent K, wherein A has at least one cross-linkable functional group; and K is a cross-linking agent consisting essentially of a polyepoxide.

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Original) The process according to claim 14, wherein A is in solution, the solution having a solids content from about 30% to about 70% by weight based on solids.

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)